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December 6, 2016

Ms. Lori Simmons
Arkansas Department of Health
4815 West Markham Street
Little Rock, Arkansas 72205
Via email Lori.Simmons@arkansas.gov

## Re: Georgia-Pacific, Crossett Mill - Biweekly Air Monitoring Report for Hydrogen Sulfide

Dear Ms. Simmons,

Following is the biweekly data summary for the Georgia-Pacific (GP) hydrogen sulfide (H<sub>2</sub>S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of November 16<sup>th</sup> through November 29<sup>th</sup>.

## Summary of Results

Included in this report are three plots presenting H<sub>2</sub>S concentrations calculated with varied rolling average periods (30-minute, 8-hour, and 24-hour).

Also included in this report is a summary of results from the daily 1-point QC checks performed during this biweekly period. The QAPP establishes goals for precision and bias as a coefficient of variation (CV) <10% and  $\pm$  10%, respectively. Precision and bias are calculated in accordance with 40 CFR Part 58 Appendix A, Section 4.1.

There were two occurrences of data loss during this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. On the afternoon of November 17<sup>th</sup>, TRC performed a manual adjustment of zero and span calibration concentrations. As a result, approximately two hours of H<sub>2</sub>S data was lost on the 17<sup>th</sup>. On the afternoon of November 29<sup>th</sup>, a complete calibration was performed, resulting in approximately one and a half hours of data loss. Results for all automated daily 1-point QC checks fall within the acceptable range, indicating the H<sub>2</sub>S monitor was operating in accordance with the QAPP.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final table. All met parameters have 100% data capture for this report period.

Please feel free to contact me if you have any questions or need any additional data.



Sincerely,

Jonathan Bowser

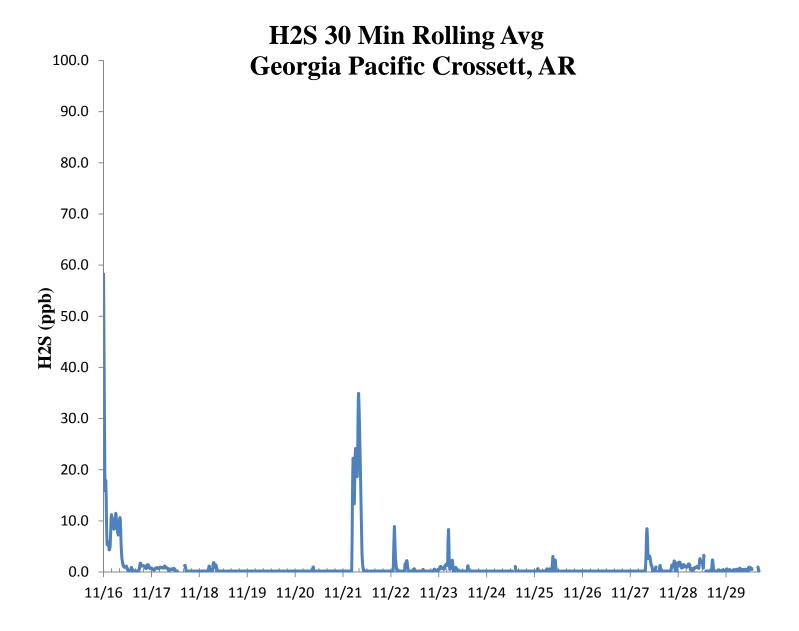
Manager, Air Quality and Meteorological Monitoring

Air Measurements – Gainesville Office 6312 NW 18th Drive, Suite 100 Gainesville, Florida 32653 (352) 260-1162

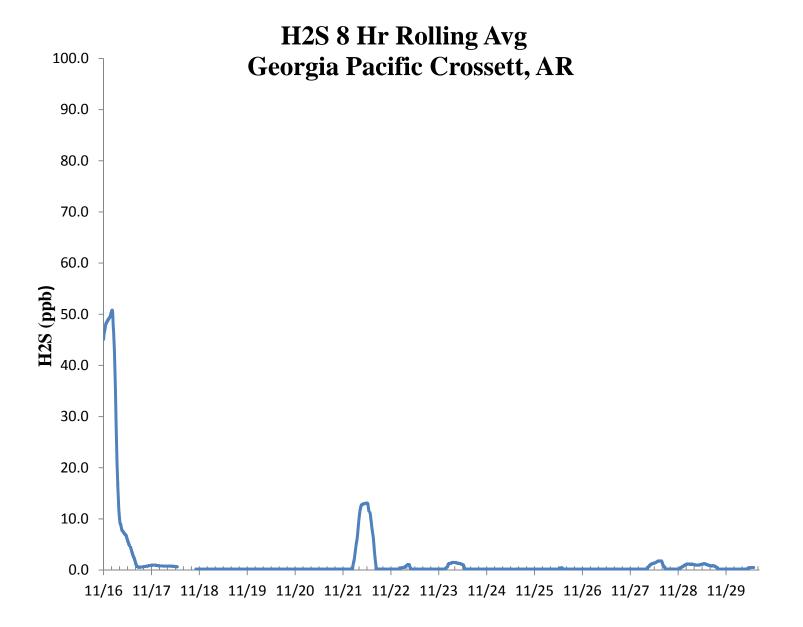
Email: jbowser@trcsolutions.com

CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

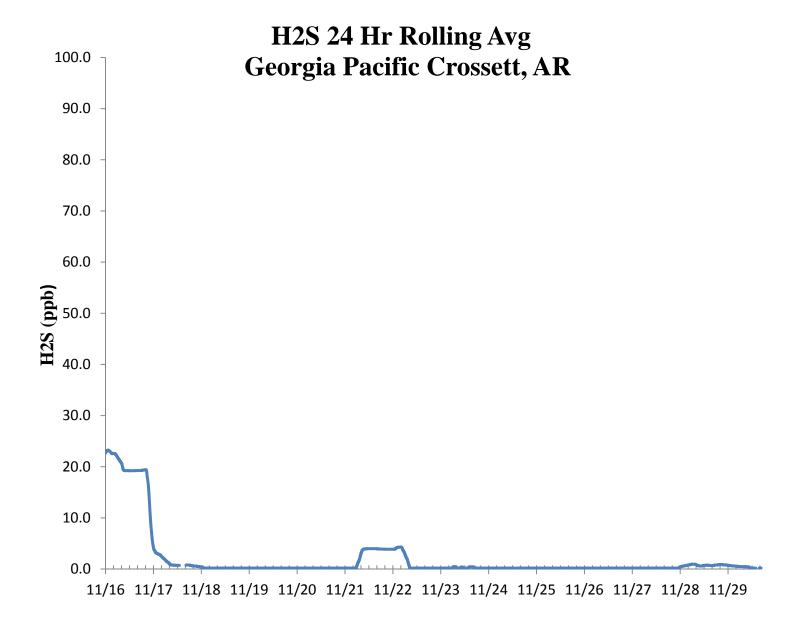














					$H_2S$	Asse	ssment	t				
GP - Crossett, AR			Compound of Interest: H <sub>2</sub> S						CV <sub>ub</sub> (%)	Bias (%)		
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d²	d	d  <sup>2</sup>					
11/16/2016 13:00	66.5	70.0	-5.0	-4.964	25.000	5.000	25.000					
11/17/2016 13:00	69.0	70.0	-1.4	75th Percentile	2.041	1.429	2.041	n	S <sub>d</sub>	S <sub>d2</sub>	∑ d	"AB" (Eqn 4)
11/18/2016 13:00	68.3	70.0	-2.4	-2.571	5.898	2.429	5.898	14	1.430	10.137	51.571	3.68
11/19/2016 13:00	66.3	70.0	-5.3		27.939	5.286	27.939	n-1	∑d	$\sum d^2$	$\sum  d ^2$	"AS" (Eqn 5)
11/20/2016 13:00	66.4	70.0	-5.1		26.449	5.143	26.449	13	-51.571	216.551	216.551	1.43
11/21/2016 13:00	66.1	70.0	-5.6		31.041	5.571	31.041					
11/22/2016 13:00	66.6	70.0	-4.9		23.592	4.857	23.592				Bias (%) (Eqn 3)	Both Signs Positive
11/23/2016 13:00	67.4	70.0	-3.7		13.796	3.714	13.796				4.36	_
11/24/2016 13:00	67.0	70.0	-4.3		18.367	4.286	18.367		CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negativ
11/25/2016 13:00	67.9	70.0	-3.0		9.000	3.000	9.000		1.94		-4.36	TRUE
11/26/2016 13:00	67.1	70.0	-4.1		17.163	4.143	17.163					
11/27/2016 13:00	68.7	70.0	-1.9			1.857	3.449	_	Upper Probabil	ity Limit	Lower Probabilit	y Limit
11/28/2016 13:00	67.8					3.143	9.878	_	-0.88		-6.49	
11/29/2016 13:00	68.8	70.0	-1.7			1.714	2.939	_				
							Percent Differences					
							15.0 -					
							10.0					
							5.0					
							0.0		<del></del>	г	1 1 1	
							-5.0	_		•	***	
									•	•		
							-10.0					
							-15.0 <sup>1</sup>					



